

SurTec® 423 R

Foam Free Inhibitor

for Hydrochloric Acid Pickling

Properties

- liquid, highly concentrated, easily rinsed off
- reduces attack on basic metal, so the cleaning effect is focussed on layers of rust, scale and likewise pollutions
- material defects, which would become visible without inhibitor, are not seen so clearly afterwards
- reduces the accumulation of iron into the pickling and into the following processes
- prolongation of the life time of the pickling
- very low generation of gas leads to fewer acid fumes, which enables the work with more concentrated acids to reduce the pickling time
- especially suited for pickling in continuous process lines
- leads to a homogenous view of the uncoated areas

Application

SurTec 423 R is added to the hydrochloric acid pickling.

Make-up values:

| | | |
|--------------------------|----------------------------------|-------------------------------------|
| hydrochloric acid (32 %) | 50 %vol | (30-100 %vol) |
| SurTec 423 R | 2 %vol | (1-4 %vol) |
| | <i>continuous process lines</i> | <i>usual rack or barrel process</i> |
| temperature: | 70 °C (50-90 °C) | 25 °C (10-40 °C) |
| application time: | 30 s (1-200 s) | 5 min (1-30 min) |
| tank material: | tank with acid-resistant coating | |
| exhaust: | required for worker's protection | |

Technical Specification

| | | | |
|--------------|----------------------|-------------------|------------------|
| (at 20 °C) | Appearance | Density (g/ml) | pH value (conc.) |
| SurTec 423 R | liquid, light yellow | 1.000 (0.99-1.01) | 7.1 (6.5-8) |

Ingredients

- alcohols
- inhibitors

Stock Keeping

In order to prevent delays in the production process, per 1,000 l bath the following amounts should be kept in stock:

SurTec 423 R Foam Free Inhibitor 25 kg

Product Safety and Ecology

The safety instructions and the instructions for environmental protection have to be followed in order to avoid hazards for people and environment. The Material Safety Data Sheets (according to European legislation) contain explicit details for this.

The following hazard designations and classifications into water hazard classes (WHC) have to be taken into account:

| <i><u>product</u></i> | <i><u>hazard designation</u></i> | <i><u>water hazard class</u></i> |
|-----------------------|----------------------------------|----------------------------------|
| SurTec 423 R | C - Corrosive | WHC 2 |

Warranty

We are responsible for our products in the context of the valid legal regulations. The warranty exclusively accesses for the delivered state of a product. Warranties and claims for damages after the subsequent treatment of our products do not exist. For details please consider our [general terms and conditions](#).

Further Information and Contact

In our forum, you can discuss topics of the surface technology:

<http://forum.SurTec.com/>

If you have any questions concerning the process, please contact your local technical department: <http://SurTec.com/International.html>

28 May 2008/DK, OP